

MDL GPS/N-3V0 I-PEXMHF+RF Cable Φ 1.13 40mm

GPS136N-S3-00-A

1. Application:

This application shall apply for antenna unit which shall be used with an engine for an automobile.(for impedance 50 Ω)

2. Appearance:

Antenna Unit (with radome , connector , and cable – refer to an attached drawing)

Dimensions	61.5*15.02*6.5 mm ;	Radome	#N
Weight	8 \pm 3 g (typ.) ;	Connector	I-PEX MHF
Color	gray ;	Cable	RF Cable Φ 1.13 40mm

3. Operating Condition:

Temperature	-40 to +90 $^{\circ}$ C
Humidity	10 to 95% RH

4. Storage Condition:

Temperature	-40 to +90 $^{\circ}$ C
Humidity	10 to 95% RH

5. Electrical Specification:

* All value are defined at 25 \pm 15 $^{\circ}$ C ,65 \pm 20 % RH, power handling 1 u watt, air pressure 960 \pm 100 HPA unless otherwise noted.

*** Patch characteristics are measured with test ground plane in an anechoic chamber.**

5-1 Patch

Characteristics	Specification
Center Frequency	1575.42 \pm 2 MHz (when covered with a radome on LNA ground plane.)
Bandwidth (10dB return loss)	10 MHz typ.
Gain at Zenith	-2.5 dBic typ.(for specified ground)
Gain at 10 $^{\circ}$ elevation	-1.5 dBic typ.(for specified ground)
Polarization	R.H.C.P
Axial Ratio	3.0dB typ.(for specified mechanical & ground)

5-2 Filter / LNA

Characteristics	Specification
Center Frequency	1575.42 \pm 1.023 MHz
Gain	16 dB \pm 3 dB (DC=3.0v)
Noise Figure	1.5 dB TYP(DC=3.0v)
Output V.S.W.R	2.0 max(DC=3.0v)
Voltage	3.0 \pm 0.3V
Current(DC= 3.0V)	3.5 \pm 1mA

UNLESS OTHER SPECIFIED TOLERANCES ON :

X= \pm X.X= \pm X.XX= \pm 0.1

ANGLES= \pm HOLEDIA= \pm

SCALE : UNIT : mm

DRAWN BY : *李坤* CHECKED BY: *魏志芳*

DESIGNED BY : *魏志芳* APPROVED BY : *魏志芳*



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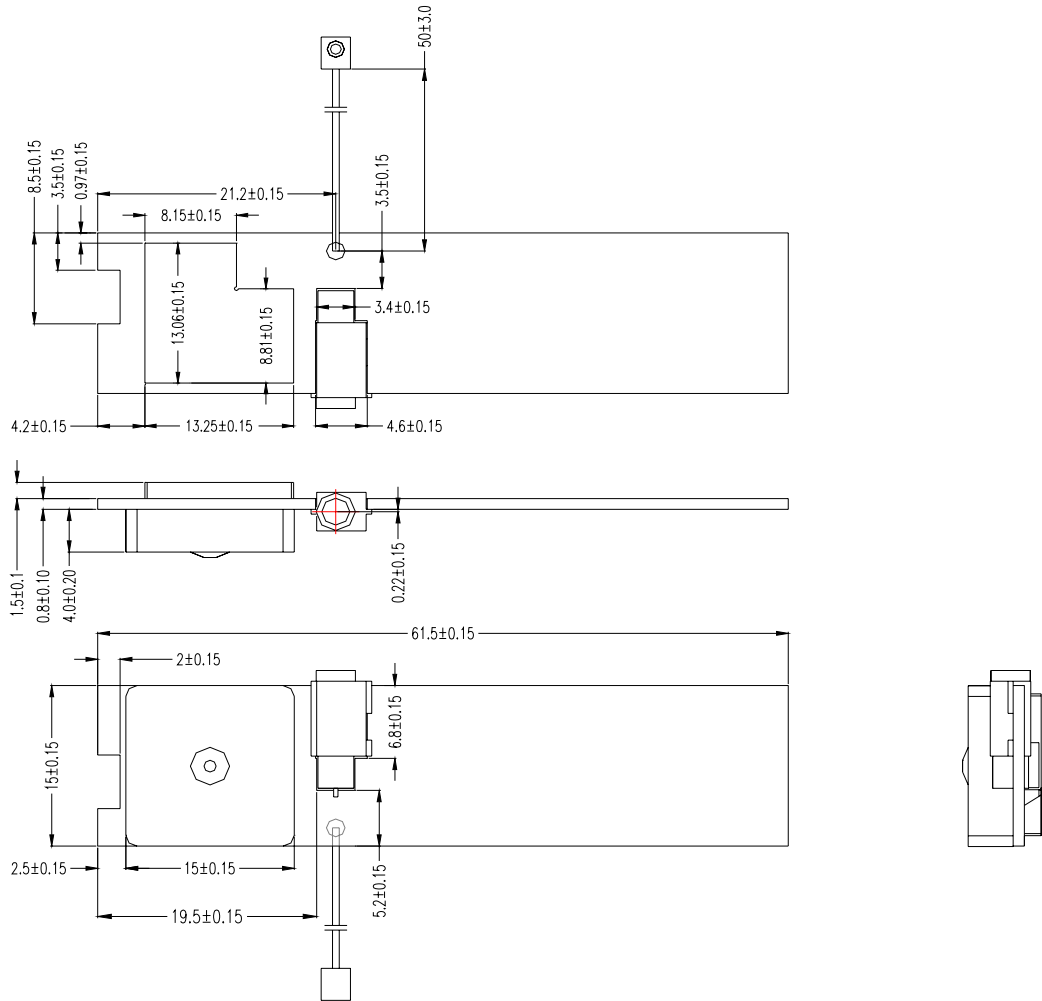
**TITLE : MDL GPS/N-3V0 I-PEXMHF+RF Cable 1.13
40mm GPS136N-S3-00-A**

**DOCUMENT
NO.**

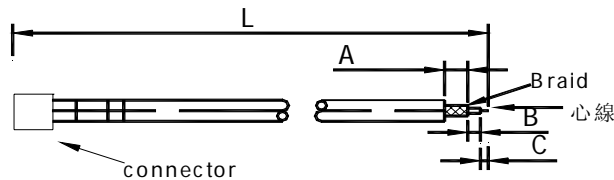
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**PAGE REV.
A2**

6. Antenna Dimensions: Unit: mm



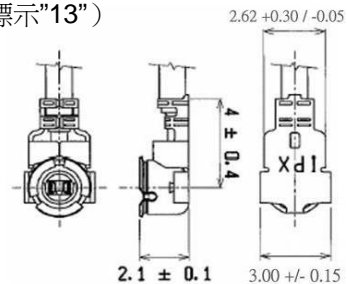
7. Cable length



Connector : I-PEX MHF , Cable : RF Cable 1.13(灰色)

L : 40±3mm, A : 3.3±0.5mm, B : 1.2±0.5mm, C : 0.8±0.5mm

CONNECTOR: I-PEX MHF (此為示意圖，其成品內應有線徑標示"13")



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=± 0.1

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN By : *李峰* CHECKED BY: *張雲芳*

DESIGNED BY : *張雲芳* APPROVED BY : *賴伯芳*

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40mm GPS136N-S3-00-A



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PAGE REV.

A2